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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/051,011	01/22/2002	Guerin Dubose Rife	RIF-114	7788	
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WELSH & FLAXMAN LLC			EXAMINER		
2341 JEFFERSON DAVIS HIGHWAY SUITE 112 ARLINGTON, VA 22202			DUONG, 1	DUONG, THANH P	
AKLINGTO	1, VA 22202		ART UNIT	PAPER NUMBER	

DATE MAILED: 12/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edeteriors of time may be available under the provisions of 37 CPR 1.738(a). In no event, however, may a reply be limely filled Edeteriors of time may be available under the provisions of 37 CPR 1.738(a). In no event, however, may a reply be limely filled If the period for reply separated above, the maximum of 37 CPR 1.738(a). In no event, however, may a reply be limely filled If the period for reply subscribed above, the maximum of 37 CPR 1.738(a). In no event, however, may a reply be limely filled If the period for reply subscribed above, the maximum statutory period will apply and will explore X(b) (MONTRS from the mailing date of this communication, even if 3 Analy filled on 22 January 2002. Fabriled to the second of the communication, even if 3 Analy filled, may reduce any event and patient term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on 22 January 2002. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is a service withdrawn from consideration. 5 Claim(s) 1-32 is/are allowed. 6) Claim(s) 1-32 is/are allowed. 6) Claim(s) 1-32 is/are allowed. 6) Claim(s) 1-32 is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) 1-32 is/are allowed. 8) Claim(s) 1-32 is/are allowed. 10 The drawing(s) filled on is/are allowed. 10 The proposed drawing correction filled on is/are: a) caccepted or b)—objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10 The proposed drawing correction filled on is/are: a) approved b)—disapproved by the Examiner. 11 proposed, corrected drawings are required in rep	- A		/				
## Deficie Action Summary ## Tom P Duong ##		Application No.	Applicant(s)				
Tom P Duong 3711 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less then thirty (20) days, a reply with the statisticy reniroum of starty in referred to reply specified above is less then thirty (20) days, a reply with the statisticy reniroum of starty in retirement and place of the communication. If the period for reply specified shows the maniform datative period will apply and will aspiss 3X (5) MAINTIS from the mailing date of this communication. If the period for reply is pecified shows the maniform datative period will apply and will aspiss 3X (5) MAINTIS from the mailing date of this communication. If the period for reply is pecified shows the maniform datative period will apply and will apply a file of the period of the communication. If the period for reply is pecified above, the maniform datative period will apply and will apply and will apply and will be considered timely. If the period for reply is pecified and the period of the period of the start period will be communication. If the period for reply is pecified and the period of the start period of the maniform data for the maniform data for the maniform data for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s)	Office Action Summany		Ui				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estations of time may be available under the provisions of 3 CRR 1.18(a). In no event, however, may a reply be limitely filled If the petited for reply appointed above is less then thirty (30) days, a reply within the satulary infortum of thirty (30) days, we have considered timely. If the petited for reply appointed which, the marking data of the communication of the petited for reply specified above. The marking data of the communication of	Office Action Summary						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Ederations of lines may be available under the provisions of 37 CFR 1.38(a). In no event, however, may a reply be limited little decreased of the provision of the statutory minimum of thinty (30) days will be considered timely. If No period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Provision is provided by the Office that he provision makes the mailing date of this communication, even if timely iffed, may veduce they even and plaster term adjustment. See 37 CFR 1.794(b). Status 1) M Responsive to communication(s) filled on 22 January 2002. 2a) This action is FINAL. 2b) M This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. 11 provided corrected drawings are required in reply to this Office action. 12) The proposed drawing correction filed on is/are lay objected to by the Examiner. 13	The MAN INC DATE of this communication and		L				
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR. 138(a). In no event, however, may a raply be limity filed after SIX (8) MONTHS from the mailing date of this communication. It is a provision of the provision of the communication of the communication of the provision o	Period for Reply	ears on the cover sheet with the c	orrespondence address				
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-13 and 18-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manning et al. (5,423,546) in view of Rife (5,562,551). Regarding claims 1-13, Manning et al. discloses on Figures 8-10 a golf club head having a hosel (12) means for shaft connection, heel portion (18), toe portion (16), striking face portion (22), top line surface (26), bottom sole portion (20), interface area, periphery weight (Col. 2, lines 20-51) wherein the structure comprises: lower portion having greater thickness than upper portion; upper portion having a planar, flat surface (Fig. 6); peripheral weight on the lower portion is progressively thicker toward the bottom sole; top edge is coincide with interface between upper and lower portion; an upper mass in a heel to toe direction (Fig. 8, 58); a ledge on an upper surface; and periphery weight extends outward from rear surface. Rife 551' makes it clears that the periphery weight particularly having concentrating mass on the lower portion is more forgiving when a ball is mishit off of the center. Thus, it would have been obvious in view of Rife to one

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having ordinary skill in the art that the golf club of Manning increases moment of inertia and also corrects and/or improves ball flight distance when a ball is mishit.

2. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over prior art as applied in claim 1, above and further in view of Shimasaki (5,562,551). With respect to claims 14-15 and 17, the prior art does not disclose a mass and/or insert located within the cavity; however, Shimasaki 551' further discloses an insert 21 is provided inside the cavity to further improve the moment of inertia and to control the center of gravity. (Col. 1, lines 56-65). Thus, it would have been obvious and desirable in view of Shimasaki to one having ordinary skill in the art to include the insert in the prior art to improve moment of inertia and control center of gravity. With respect to claim 16, Official Notice is taken that it is conventional to provide such undercut retention to retain the insert and it would have been obvious to do here to gain the same benefits.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom P Duong whose telephone number is (703) 305-4559. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell can be reached on (703) 308-2126. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7768 for regular communications and (703) 305-3579 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-4148.

Tom Duong November 27, 2002 Paul T. Sewell
Supervisory Patent Examiner
Group 3700